

WHAT IS CLAIMED IS:

1. A reproducing apparatus comprising:
reproducing means for reproducing image data from
a recording medium at a speed higher than a normal
reproduction speed;
storage means for storing a plurality of pictures
of image data reproduced by said reproducing means; and
forming means for dividing each of a plurality of
pictures of image data stored in said storage means
into a plurality of regions and for forming one picture
of high-speed-reproduction image data by using the
different divided regions of the plurality of pictures
of image data.
- 15 2. An apparatus according to claim 1, wherein
said forming means divides each of a plurality of
successive pictures of image data stored in said
storage means into a plurality of regions, and forms
one picture of high-speed-reproduction image data by
20 using one of divided regions of each of the plurality
of pictures of image data, said one divided region of
each picture differing in position from each other.
- 25 3. An apparatus according to claim 1, wherein
said forming means divides each of n pictures (n: an
integer equal to or greater than 2) of image data
stored in said storage means into a plurality of

regions, and forms one frame of high-speed-reproduction image data by using one of n divided regions of each of the plurality of pictures of image data, said one divided region of each picture differing in position
5 from each other.

4. An apparatus according to claim 3, wherein
said forming means forms one picture of the high-speed-reproduction image data for every nth picture of image
10 data reproduced by said reproducing means.

5. An apparatus according to claim 3, wherein the number n is determined according to the speed at which the image data is reproduced by said reproducing means.

15 6. An apparatus according to claim 1, wherein the image data is encoded by interpicture coding and by intrapicture coding.

20 7. An apparatus according to claim 6, wherein said reproducing means has decoding means for decoding the reproduced image data, and said storage means stores image data decoded by said decoding means.

25 8. An apparatus according to claim 1, wherein the recording medium comprises a disc-like recording medium.

9. A reproducing apparatus comprising:

reproducing means for reproducing image data from
a recording medium;

storage means for storing a plurality of pictures
5 of image data reproduced by said reproducing means;

forming means for forming normal-reproduction
image data and search-reproduction image data by using
the plurality of pictures of image data stored in said
storage means, said forming means forming one picture
10 of the normal-reproduction image data by using only one
picture of image data in the plurality of pictures of
image data stored in said storage means, said forming
means dividing each of a plurality of pictures of image
data stored in said storage means into a plurality of
15 regions and forming one picture of the search-
reproduction image data by using the different divided
regions of the plurality of pictures of image data; and

mode change means for changing the reproduction
mode between a normal reproduction mode in which said
20 reproducing means reproduces the image data at a normal
reproduction speed and said forming means forms the
normal-reproduction image data, and a search
reproduction mode in which said reproducing means
represents the image data at a speed higher than the
25 normal reproduction speed and said forming means forms
the search-reproduction image data.

10. An apparatus according to claim 9, wherein
said forming means divides each of a plurality of
successive pictures of image data stored in said
storage means into a plurality of regions, and forms
5 one picture of search-reproduction image data by using
one of divided regions of each of the plurality of
pictures of image data, said one divided region of each
picture differing in position from each other.

10 11. An apparatus according to claim 9, wherein
said forming means divides each of n pictures (n: an
integer equal to or greater than 2) of image data
stored in said storage means into a plurality of
regions, and forms one frame of search-reproduction
15 image data by using one of n divided regions of each of
the plurality of pictures of image data, said one
divided region differing of each picture in position
from each other.

20 12. An apparatus according to claim 11, wherein
said forming means forms one picture of the search-
reproduction image data for every nth picture of image
data reproduced at a speed higher than the normal-
reproduction speed.

25 13. An apparatus according to claim 11, wherein
the number n is determined according to the speed at

which the image data is reproduced in the search reproduction mode.

14. An apparatus according to claim 9, wherein
5 the image data is encoded by interpicture coding and by intrapicture coding.

15. An apparatus according to claim 14, wherein
said reproducing means has decoding means for decoding
10 the reproduced image data, and said storage means
stores image data decoded by said decoding means.

16. An apparatus according to claim 9, wherein
the recording medium comprises a disc-like recording
15 medium.

17. A reproducing apparatus comprising:
reproducing means for reproducing image data from
a recording medium;
20 storage means for storing a plurality of pictures
of image data in the image data reproduced by said
reproducing means;
mode change means for changing the reproduction
mode between a first reproduction mode and a second
25 reproduction mode according to motion of an image
relating to the image data reproduced by said
reproducing means; and

forming means for forming first image data and second image data by using the plurality or pictures of image data stored in said storage means, said forming means dividing each of a plurality of pictures of image data stored in said storage means into a plurality of regions, said forming means forming one picture of the first image data by using the different divided regions of the plurality of pictures of image data, said forming means forming one picture of the second image data by using only one picture of image data of the plurality of pictures of image data stored in said storage means, said forming means forming the first image data in the first reproduction mode and forming the second image data in the second reproduction mode.

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18. An apparatus according to claim 17, wherein the image data reproduced by said reproducing means is encoded by interpicture coding and by intrapicture coding, and said reproducing means has decoding means for decoding the image data reproduced from the recording medium.

19. An apparatus according to claim 18, wherein said storage means stores the image data decoded by said decoding means, and said forming means forms, in the second mode, one picture of the first image data by using only decoded image data of the image data encoded

by intrapicture coding.

20. An apparatus according to claim 17, wherein
said reproducing means also reproduces motion
5 information indicating a movement of an image relating
to the image data recorded on the recording medium, and
said mode change means changes the reproduction mode
according to the motion information reproduced by said
reproducing means.

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21. A reproducing apparatus comprising:
reproducing means for reproducing image data from
a disc-like recording medium; and
forming means for forming one picture of search-
15 reproduction image data by using a portion of each of a
plurality of successive pictures of image data
reproduced by said reproducing means in a search
reproduction mode in which said reproducing means
reproduces the image data at a speed higher than a
20 normal reproduction speed.

22. An apparatus according to claim 21, wherein
the image data recorded on the disc-like recording
medium is encoded by interpicture coding and by
25 intrapicture coding, and said forming means forms, in
the search reproduction mode, one picture of the
search-reproduction image data by using portions of the

plurality of successive pictures of image data
including image data decoded from the intrapicture-
coded image data and image data decoded from the
interpicture-coded image data in the image data
5 reproduced by said reproducing means.

23. A method for reproducing image data from a recording medium, said method comprising the steps of:
storing in a memory a plurality of pictures of
10 image data reproduced from the recording medium at a speed higher than a normal reproduction speed; and
dividing each of the plurality of pictures of
image data stored in the memory into a plurality of regions, and forming one picture of image data by using
15 the different divided regions of the plurality of pictures of image data.

24. A reproduction method comprising the steps of:
reproducing image data from a disc-like recording
20 medium; and
forming one picture of search-reproduction image data by using a portion of each of a plurality of successive pictures of image data reproduced in said
25 reproducing step in a search reproduction mode in which the image data is reproduced at a speed higher than a normal reproduction speed in said reproducing step.